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To: Joyce Ackerman/EPR/R8/USEPA/US@EPA
cc:
Subject: Chemical Information

Some pertinent information on 2-chlorobenzalmalononitrile

It is a lacrimator used as a riot control agent.

CAS: 2698-41-1

RTECS Number NIOSH/003675000

White crystalline solid with an odor of pepper.

Vapor Pressure = 3.4×10^{-5} mmHg @ 20°C

When heated to decomposition will produce very toxic fumes of HCl, NO_x, and cyanides.

Major degradation if this chemical is hydrolysis with half life in water of 281 minutes.

In cold soil, it has persisted for about 45 days.

The ceiling limit for exposure in skin is 0.05ppm. For inhalation the OSHA PEL is 0.05ppm.

Basically we would need a recent release event to find this compound in the soil or on surfaces. An air sample would only detect the chemical during a actual release.

Let me know if you have any other questions!